

CLAIMS

1. Device for introducing gases into a hot medium, whereby device (1) contains a pipe (2) for introducing gas and a cooling jacket (3) that encases pipe (2).

2. Device according to claim 1, whereby cooling jacket (3) encases pipe (2) up to its orifice (2a).

3. Device according to claim 1 or 2, whereby the coolant for cooling jacket (3) is gas or a gas mixture, oil or an oil mixture, silicone oil or a silicone oil mixture, water or an aqueous solution.

4. Device according to one or more of claims 1 to 3, wherein the gas that is introduced is chlorine gas or a mixture of chlorine gas and other gases.

5. Device according to one or more of claims 1 to 4, whereby the material of the surfaces of the device that are in contact with the gas that is to be introduced is platinum or a platinum alloy.

6. Device according to one or more of claims 1 to 5, whereby the medium, in which the gas is introduced, is melted glass.

7. Device according to one or more of claims 1 to 6, whereby the container is a glass-melting tank, a lower part thereof or a crucible.

8. Process for introducing gases into a hot medium, whereby gas is introduced into a hot medium via a device (1) that contains a pipe (2) and a cooling jacket (3) that encases pipe (2).

9. Process according to claim 8, whereby cooling jacket (3) encases pipe (2) up to its orifice (2a).

10. Process according to claims 8 or 9, whereby cooling jacket (3) is cooled with water or an aqueous solution.

11. Process according to one or more of claims 8 to 10, whereby as a gas, chlorine gas or a mixture of chlorine gas and other gases is introduced.

12. Process according to one or more of claims 8 to 11, whereby the gas is introduced into melted glass.

13. Process according to one or more of claims 8 to 12, whereby the gas is introduced into a glass-melting tank, a lower part thereof or a crucible and is used in refining parts as well as conditioning parts.

14. Process according to one or more of claims 8 to 13, whereby the process is performed continuously.

15. Use of the device according to one or more of claims 1 to 7 for introducing chlorine gas or a mixture of chlorine gas and other gases in a melt from which glass is produced for laser applications.